

WHAT IS CLAIMED IS:

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1. A portable facility for reconditioning an antifriction bearing, said facility comprising an enclosure that is portable in the sense that it can be placed on and moved by a transport vehicle; equipment within the enclosure for inspecting components of the bearing; and more equipment [?] with the enclosure for repairing defects in the bearing.

2. A portable facility according to claim 1 and further comprising equipment within the enclosure for lubricating the bearing.

3. A portable facility according to claim 2 and further comprising equipment for cleaning the bearing.

4. A portable enclosure according to claim 3 wherein the equipment for cleaning the bearing is located outside the enclosure.

5. A portable facility according to claim 4 wherein the enclosure has at least one end through which access to the interior of the enclosure is obtained, and further comprising a deck at said one end of the enclosure, the equipment for cleaning the bearing being on the deck.

6. A portable facility according to claim 2 wherein the enclosure contains stations at which the equipment for inspecting, repairing defects, and lubricating the bearings is located; wherein the enclosure has side walls and the stations are located along the side walls; and wherein a center aisle separates the stations along each side wall.

7. A portable facility according to claim 1 wherein the enclosure has side walls, ends through which access to the interior of the enclosure is obtained, a roof,

which extends between the side walls and over the interior of the enclosure, and doors attached to the side walls for closing the ends of the enclosure.

8. A portable facility for reconditioning a tapered roller bearing including a cup having a tapered raceway that is presented inwardly, a cone having a tapered raceway that is presented outwardly toward the raceway of the cup, tapered rollers located in a row between the raceways of the cup and cone, and a cage fitted to the rollers to maintain the correct spacing between the rollers and to retain the rollers around the cone in the absence of the cup, thus uniting the cone, rollers and cage into a cone assembly, said facility comprising: an enclosure containing a plurality of stations and being portable in the sense that it can be moved by a transport vehicle; equipment at one of the stations for inspecting the cone assembly; equipment at another of the stations for inspecting and repairing the raceway of the cup; equipment at still another station for opening the cage and releasing the rollers; equipment at yet another station for repairing the raceway of the cone; and equipment at another station for closing a new cage about the rollers on the cone to retain the rollers on the cone and unite the cone assembly formed by cone, rollers, and new cage;

9. A portable facility according to claim 8 and further comprising equipment in the enclosure at another station for lubricating the cone assembly and equipment at still another station for installing a seal into the cup, with the seal being configured to retain the cone assembly in the cup.

10. A portable facility according to claim 8 for reconditioning a bearing having ~~two raceways in its cup, two cone assemblies, and a spacer between the cones, with~~

the spacer being long enough to impart end play to the bearing; and further comprising equipment at yet another station for measuring the end play in the bearing.

11. A portable facility according to claim 8 wherein the enclosure has side walls; wherein the stations are located along the side walls; and wherein the enclosure contains an aisle that is located between the stations along each side wall.

12. A portable facility according to claim 8 and further comprising a deck adjacent to the enclosure and equipment on the deck for removing grease from the bearing.

13. A process for reconditioning a bearing that is removed from a wheel set at a repair shop, the bearing having an outer race provided with a raceway that is presented inwardly, an inner race that is provided with a raceway that is presented outwardly, rolling elements located in a row between the two raceways, and a cage fitted to the rolling elements to maintain the proper spacing between the rolling elements and to retain the rolling elements on the inner race in the absence of the outer race, said process comprising: delivering to the shop, by a transport vehicle, a portable facility for reconditioning the bearing, the facility including equipment for inspecting the bearing and repairing the raceways of the inner and outer races.

14. The process according to claim 13 and further comprising, inspecting the raceways of the races at the facility, and repairing the raceways at the facility.

15. The process according to claim 14 wherein the facility includes an enclosure, and the equipment for inspecting the bearing and the equipment for repairing the raceways is in the enclosure.

16. The process according to claim 15 and further comprising removing grease from the bearing.

17. The process according to claim 16 wherein the step of removing grease occurs adjacent to, but outside of, the enclosure.

18. The process according to claim 13 wherein the outer race comprises a cup having two tapered raceways that are presented inwardly, the inner race comprises a pair of cones having the tapered raceways that are presented outwardly toward the raceways of the cup; wherein the rolling elements are tapered rollers arranged in two rows, between the raceways of the cone and cup; and wherein the bearing further includes a spacer, the length of which determines the end play in the bearing; and further comprising, at the facility, measuring the end play within the bearing and selecting a spacer that provides the bearing with the desired end play.

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